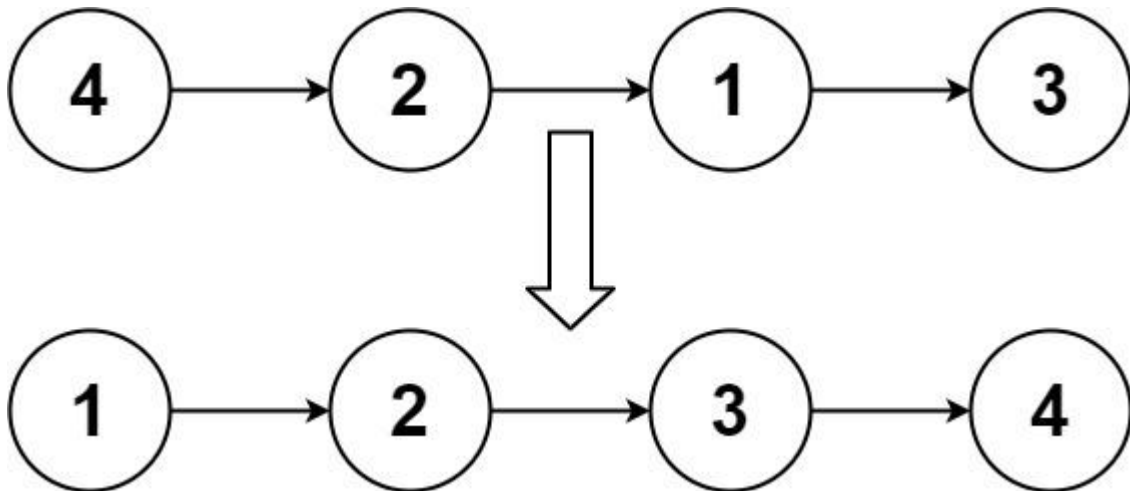


Sort List [\(View\)](#)

Given the `head` of a linked list, return *the list after sorting it in **ascending order***.

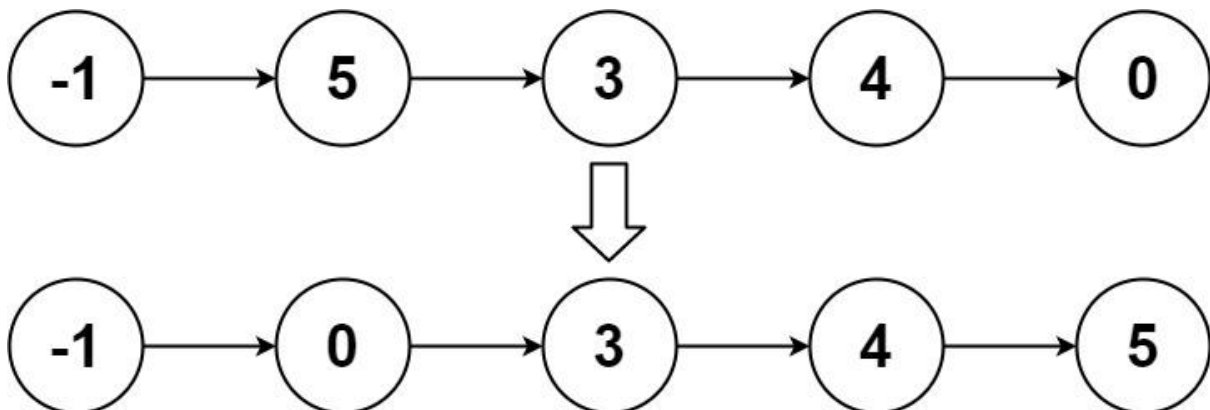
Example 1:



Input: `head = [4,2,1,3]`

Output: `[1,2,3,4]`

Example 2:



Input: `head = [-1,5,3,4,0]`

Output: `[-1,0,3,4,5]`

Example 3:

Input: head = []

Output: []

Constraints:

- The number of nodes in the list is in the range $[0, 5 * 10^4]$.
- $-10^5 \leq \text{Node.val} \leq 10^5$

Follow up: Can you sort the linked list in $O(n \log n)$ time and $O(1)$ memory (i.e. constant space)?